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Change Number

TPA-CN-660  
(Reissued)

**Federal Facility Agreement and Consent Order**  
**Change Control Form**

Do not use blue ink. Type or print using black ink.

Date

June 29, 2015

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**Class of Change**

☐ I - Signatories

☐ II - Executive Manager

☒ III - Project Manager

**Change Title**

300 Area Retained Waste Sites

**Description/Justification of Change**

Reissued to correct typographic mistakes in document number:

Modify the Remedial Design Report/Remedial Action Work Plan for 300-FF-2 Soils (RDR/RAWP), DOE/RL-2014-13-ADD1, Revision 0, Section 1.2.2, Retained Facilities and Associated Waste Sites. This change documents the configuration of waste sites following completion of available remedial actions in the 300-FF-2 Operable Unit that could be completed without impact to retained facilities and associated utilities.

Description/Justification of Change continued on next page.

**Impact of Change**

Evolving utility reconfigurations in the 300 Area supporting ongoing facility operations made additional waste sites available for remediation and caused interference with others. Attachment 1 of this TPA-CN consists of modifications to Section 1.2.2 that reflect an updated list of retained/impacted waste sites. Attachment 1 also includes as-built Decision Unit drawings documenting the final configuration of waste site piping; both fully remediated and retained portions.

**Affected Documents**

Remedial Design Report/Remedial Action Work Plan for 300-FF-2 Soils, DOE/RL-2014-13-ADD1, Revision 0

**Approvals**

DOE

Date

6/29/15

X

Approved

Disapproved

EPA

Date

6/27/15

X

Approved

Disapproved

Ecology

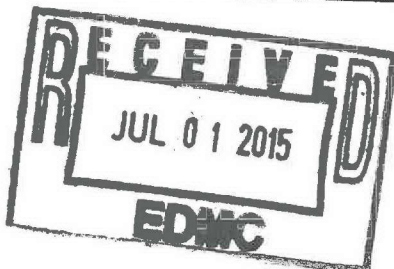
N/A

Date

Approved

Disapproved

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## TPA-CN-660 Attachment 1

Section 1.2.2 is being modified as shown below using double underline to indicate text additions and ~~strike-through~~ to indicate text deletions:

### 1.2.2 Retained Facilities and Associated Waste Sites

The U.S. Department of Energy (DOE) has determined that certain buildings and utilities within the 300 Area need to be retained to support the ongoing mission of the Pacific Northwest National Laboratory and the Hanford Site. These facilities, shown in Figure 1-2, are expected to be retained through at least 2027. In addition, the 324 Complex must be retained temporarily (interim retained) in order to safely remediate highly contaminated portions of the underlying 300-296 waste site. Other waste sites, listed in Table 1-2, are located partly or wholly under or immediately adjacent to facilities and utility corridors that will be retained, restricting the capability to complete RTD at these sites until the retained facilities are removed. Accordingly, the selected remedy for 300-FF-2 waste sites includes a component for interim stabilization using temporary surface barriers (e.g., asphalt or other suitable impermeable material) and pipeline void filling (e.g., by grouting or use of other suitable stabilizing agent).

**Table 1-2. 300 Area Waste Sites Affected by Retained Facilities**

Waste Site	Facility Interference
300-5, Fire Station Fuel Tanks	3709-A and 3709-B
300-15, Process Sewer System	Multiple facilities and utility corridors
300-121, 3621D Stormwater Runoff Drain	Overhead electrical lines
<u>300-175, 3714 Steam Condensate Trap</u>	<u>3714 Slab and underground utilities</u>
300-214, Retention Process Sewer	Multiple facilities and utility corridors
300-265, Pipe Trench between 324 and 325	324 Complex & 325 Complex
300-269, 331A Building Foundation	331A Building foundation
300-296, Soil Contamination Below the 324 Building	324 Complex
300-RLWS, Radioactive Liquid Waste Sewer	Multiple facilities and utility corridors
300-RRLWS, Retired Radioactive Liquid Waste Sewer	Multiple facilities and utility corridors
331-LSLT-1, Life Sciences Lab Trench 1	331 Complex
331-LSLT-2, Life Sciences Lab Trench 2	331 Complex
UPR-300-10, Unplanned Release	325 Complex
UPR-300-12, Unplanned Release	325 Complex
UPR-300-48, Unplanned Release	325 Complex
325 WTF <sup>b</sup> , Waste Storage	325 Complex
400-37, Underground Fuel Oil Tank	4732-B Building
400-38, Underground Fuel Oil Tank	4722-A Building foundation

**Notes:**

a The 324 Complex will be interim retained to support safe remediation of highly contaminated soil at the 300-296 waste site.

b The 325 WTF site is a *Resource Conservation and Recovery Act* treatment, storage, and disposal unit and is not included in the scope of this addendum.

Piping systems listed in Table 1-2 were used to transfer and manage radiologically and chemically contaminated liquid wastes from 300 Area facilities. The piping systems fit into one of four categories: (1) inactive segments of piping that are not affected by retained facility considerations and are thus available for remediation per TPA Milestone M-016-069, (2) inactive piping segments that are not available for near-term remediation per TPA Milestone M-016-069 because of interference with 300 Area retained facilities/utilities, which will be stabilized using standard industry void fill materials, as appropriate, to mitigate the potential for radiological or chemical contaminant migration; (3) retained active piping segments, which will be remediated following deactivation of retained facilities and utilities; and (4) inactive and active segments that will be remediated after removal of the 324 and 325 Complexs. Demolition schedule for 324 will be developed in

parallel with the development of a new M-089-00 milestone. The approximate lengths and current status for each of the piping systems is listed in Table 1-3.

Decision Unit drawings H-3-316268, H-3-317394, H-3-317395, H-3-317397, H-3-317398, and H-3-317609 identify the current configuration of 300 Area waste site piping systems and document both remediated and remaining portions. Descriptions of the piping systems are provided below:

**300-15 Process Sewer Located North of Apple Street:** The inactive 300-15 piping located north of Apple Street was remediated, backfilled, and revegetated by March 31, 2013, completing Tri-Party Agreement Milestone M-16-139. Subsequent to March of 2013, the 310 Retention Transfer System (RTS) was declared surplus and deactivated. 300-15 piping associated with operation of that facility was remediated from the 325 Building to the former 342 Lift Station. The remainder of 300-15 piping from the 342 Lift Station to 310 RTS, then back to Lift Station 10 in the southern 300 Area was characterized and reclassified as "No Action". An interfered segment of the original main line north of 342 to the north process pond remains in place.

**300-15 Process Sewer Located South of Apple Street:** Remediation of accessible piping was performed in support of Tri-Party Agreement Milestone M-16-69, remediation of 300 Area waste sites. The remainder will be remediated with the retained facilities and utilities.

**300-214, Retention Process Sewer:** Remediation of accessible piping was performed in support of Tri-Party Agreement Milestone M-16-69. The remainder will be remediated with the retained facilities and utilities.

**300-265, Pipe Trench Between 324 and 325:** Remediation of piping will be performed in conjunction with disposition of the 324 Complex and 325 Complex.

**300 Radioactive Liquid Waste System (300 RLWS):** Remediation of accessible piping was performed in support of Tri-Party Agreement Milestone M-16-69. The remainder will be remediated with the retained facilities and utilities.

**300 Retired Radioactive Liquid Waste System (300 RRLWS):** Remediation of accessible piping was performed in support of Tri-Party Agreement Milestone M-16-69. The remainder will be remediated with the retained facilities and utilities.

**Table 1-3. 300 Area Waste Piping Systems**

<b><u>Pipeline</u></b>	<b><u>Known Length (Linear Feet)</u></b>	<b><u>Active and Inactive Piping Left in Place (Linear Feet)</u></b>	<b><u>Remediated</u></b>
<b><u>300-15</u></b>	<b><u>48,347</u></b>	<b><u>24,344<sup>a</sup></u></b>	<b><u>24,003</u></b>
<b><u>300 RLWS</u></b>	<b><u>5,044</u></b>	<b><u>2,162</u></b>	<b><u>2,882</u></b>
<b><u>300 RRLWS</u></b>	<b><u>3,456</u></b>	<b><u>1,873</u></b>	<b><u>1,583</u></b>
<b><u>300-214</u></b>	<b><u>5,601</u></b>	<b><u>3,078</u></b>	<b><u>2,523</u></b>
<b><u>300-265</u></b>	<b><u>2,099</u></b>	<b><u>2,099</u></b>	<b><u>0</u></b>
<b><u>Total</u></b>	<b><u>64,547</u></b>	<b><u>33,556</u></b>	<b><u>30,991</u></b>

<sup>a</sup> total includes 15,058 linear feet of 300-15 piping closed in place.

**NOTE:** Refer to Decision Unit drawings H-3-316268, H-3-317394, H-3-317395, H-3-317397, H-3-317398, and H-3-317609 for waste site piping details.